Oracle CRM 11*i* "Hornet" Release: JTF Page Prefabrication



What is JTF Prefab Solving?

- 20 Milli Sec Page Retrivals vs. Few Secs
- OSO Pages for Sales, Marketing personnel
 - Page Content is Dynamic based on the user, Caching will NOT Solve it
 - Prefabricate it (my.yahoo.com)!

JTF Prefab Applications (OSO) Should Provide

- List of JSP pages in application (70 pages)
- List of read-only JSP pages (30 pages)
- APP ID, RESP ID for the application
- No Changes To Application Software & Database Schema (non-intrusive)

CRM Yeshandawa & Aschington Base Brainstein

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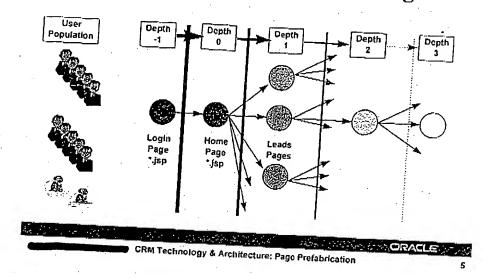
JTF Prefab OSO Prefabrication

- Total JSP pages: 75
 - read-only pages: 30
- For a sales force of 100:
 - 3000 pages to prefabricate
 - generate per min or 10 mins
- MY.YAHOO.COM:
 - 6 million pages
 - every few minutes

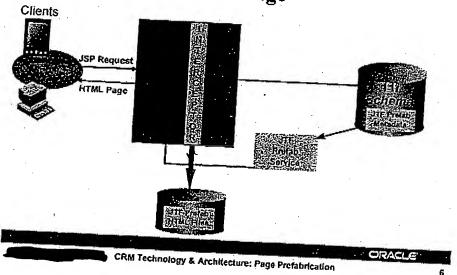
DRACLE

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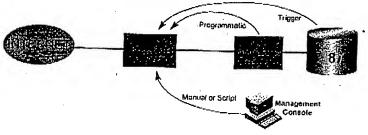
JTF Prefab: Fabrication Rate Depth.vs. Staleness of Home Page



JTF Prefab Dynamic -> Static Page



IAS Web Cache Calypso Invalidation



GET /x-oracle-cache-invalidate HTTP/1.0

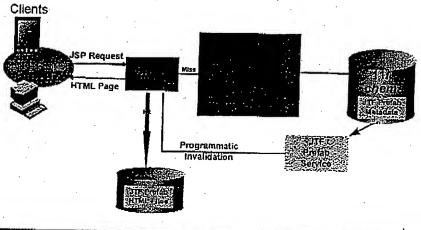
X-Oracle-Cache-Invalidate-URL-Profix: /catalog

X-Oracle-Cache-Invalidate-Level: 0

Invalidates all URLs starting with /catalog (e.g. entire catalog) with severity of 0 (i.e., never serve these pages state)

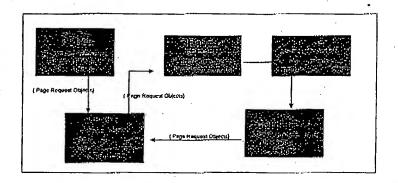
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JTF Prefab Working with Calypso



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JTF Prefab Service **Application Components**



JTF Prefab Service Algorithm

- For RESP ID, APP ID:
 - Get the list of FND USERS
 - Run the prefabricator at n min (10 min) intervals
- · Reduce # of pages to prefabricate using:
 - user access pattern
 - usage statistics
 - etc...

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JTF Prefab Invalidation Policy

- Timer based invalidation:
 - configure intervals for page regeneration
- Login based invalidation.
 - when user logs in, re-generate user-specific pages
- Event based invalidation:
 - transactional URLs invalidate set of dependent pages

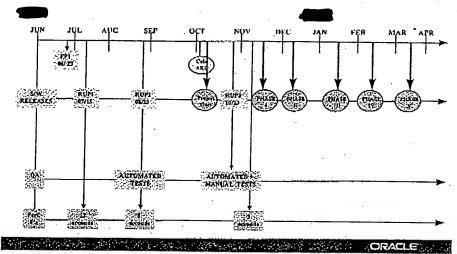


Caching .vs. Prefabrication Solutions

	Caching	Prefabrication
Problem	Repetitive fetching of same content	
Solutions	Reactive	user access patterns Pro-active
Pros	App. Neutral,	App. Specific,
		Utilizes excess CPU
•	:	& Disk on mid-tier
		boxes.
	Slow for first time	Too many pages
	user access.	prefabricated

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CRM JTF: Page Prefabrication Schedule



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CRM JTF: Page Prefabrication Schedule

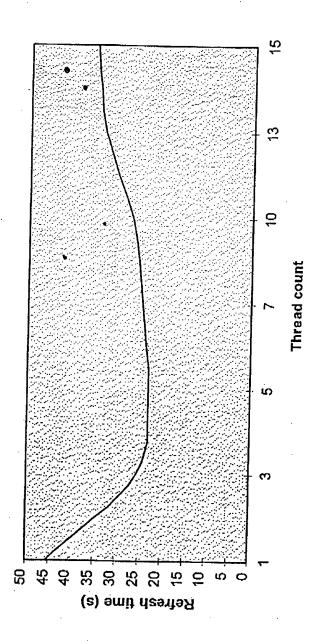
Phase	Date	Functionality
0		Session Mgmt., Intercept URI requests & serve Fab-Pages
I		Refresh Sales & iSTORE pages in 'm' minutes
II		Feedback of HOT users/ pages
III		Selectively Fabricate pages & "N" Mid-tiers support
ïV		Set up and Admin Screens
$\dot{m{V}}$		Release
Risk		Selectivity Algorithms & Ease of set up.

Of set up.

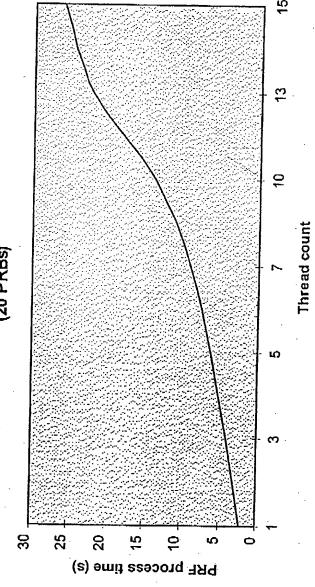
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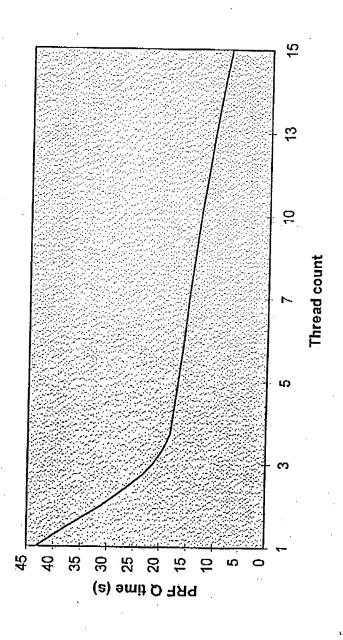


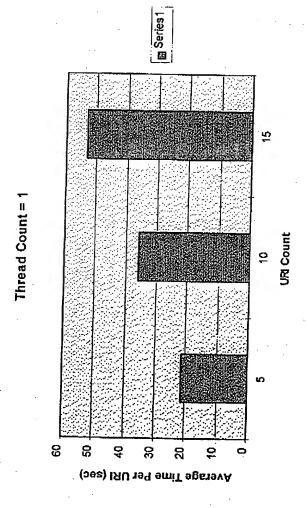






PRF Q time vs Thread count (20 PRBs)





Estimate for 7000 URIs = 3010sec per URI (50 min/URI)

Response Time For Home Page

Without Prefabrication: 3.76 sec With Prefabrication: 0.53 sec

(Values measured using Load Runner)

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